

Claims

1. Portable assembly for emergency ventilation,
5 comprising:
 - a source (1) of compressed gas equipped with a gas pressure-reducing valve device (2) with which it is possible to control the flowrate and/or the pressure of the gas issuing from the
10 gas source (1),
 - a respiratory assistance ventilator (3) fed with gas by said gas source (1), and
 - a man/machine interface (4) cooperating with said ventilator (3) so as to permit regulation of at least one ventilation parameter and/or of
15 at least one ventilation set-point.
2. Assembly according to Claim 1, characterized in that the gas pressure-reducing valve device (2) comprises an outlet connector (5) to which the
20 respiratory assistance ventilator (3) is fixed.
3. Assembly according to either of Claims 1 and 2, characterized in that the respiratory assistance ventilator (3) comprises an internal gas circuit
25 (12) forming a fluidic connection from an inlet orifice (11) to an outlet orifice (23), a proportional valve (13) being arranged on said internal circuit (12), said valve (13) being
30 controlled by control means (14) cooperating with the man/machine interface (4).
4. Assembly according to one of Claims 1 to 3, characterized in that the respiratory assistance ventilator (3) moreover comprises a venturi injector (16) arranged on the internal circuit (12), downstream of the proportional valve (13).

5. Assembly according to one of Claims 1 to 4, characterized in that the respiratory assistance ventilator (3) additionally comprises a flowrate sensor (19) and a pressure sensor (20) for measuring the flowrate and the pressure of the gas in the internal circuit (12), said sensors cooperating with the control means (14) in such a way as to permit automatic control and regulation of the proportional valve (13) in terms of flowrate and/or pressure.
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6. Assembly according to one of Claims 1 to 5, characterized in that the man/machine interface (4) comprises means (33, 34, 35) for regulating a ventilation set-point or parameter in order to permit selection and/or regulation of at least one ventilation parameter and/or of at least one ventilation set-point, and preferably display means (32) cooperating with said regulating means in order to make it possible to visualize and/or display at least one value of at least one ventilation parameter and/or of at least one ventilation set-point that has been selected and/or regulated.
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7. Assembly according to one of Claims 1 to 6, characterized in that it comprises a patient circuit (6) with at least one gas conduit connected, via its upstream end, to the outlet orifice (23) of the ventilator and, via its downstream end, to a respiration mask (7).
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8. Assembly according to one of Claims 1 to 7, characterized in that the pressure-reducing valve (2) and the ventilator (3) are protected by a protective hood fixed on the gas source (1).
9. Assembly according to one of Claims 1 to 8, characterized in that the means (33, 34, 35) for

regulating a ventilation set-point or parameter
permit selection and/or regulation of at least one
ventilation parameter and/or of at least one
ventilation set-point chosen from the group
5 comprising the ventilation frequency, the
ventilation flowrate, the ventilation volume, the
composition of the gas mixture, the inhalation
trigger threshold, the inhalation time and/or the
exhalation time, or their ratio, the positive
10 expiratory pressure (PEP), the ventilation mode,
and the maximum safety pressure.

10. Assembly according to one of Claims 1 to 9,
characterized in that the pressure-reducing valve
15 device (2), the respiratory assistance ventilator
(3) and the man/machine interface (4) cooperating
with said ventilator (3) form a compact system
supported by the gas source (1), in particular by
an oxygen cylinder.